Digital Forensic Analysis Report -- ## Case Information *Case Title:* DSA FORENSIC PROJECT *Case Number:* 007 *Date:* July 03, 2025 *Prepared By:*Emmanuel Odunsi *Affiliation/Agency:* V Lab

This report presents the forensic analysis of an Android device image in ISO format. The image was processed using Autopsy, and key artifacts such as chat data, browsing history, and media metadata were recovered. The investigation focused on potential evidence of communication, location history, and deleted files.

6 Scope & Objectives

* Executive Summary

- To examine the contents of an Android image file (android_image.iso)
- To identify and extract user data such as messages, contacts, and images

- To recover deleted files and analyze media metadata
- To provide a summarized forensic overview for legal or investigative use

🦴 Tools Used

Autopsy Version: 4.22.1

Android Analyzer Module: 4.22.1

Android Analyzer (aLEAPP) Module: 4.22.1

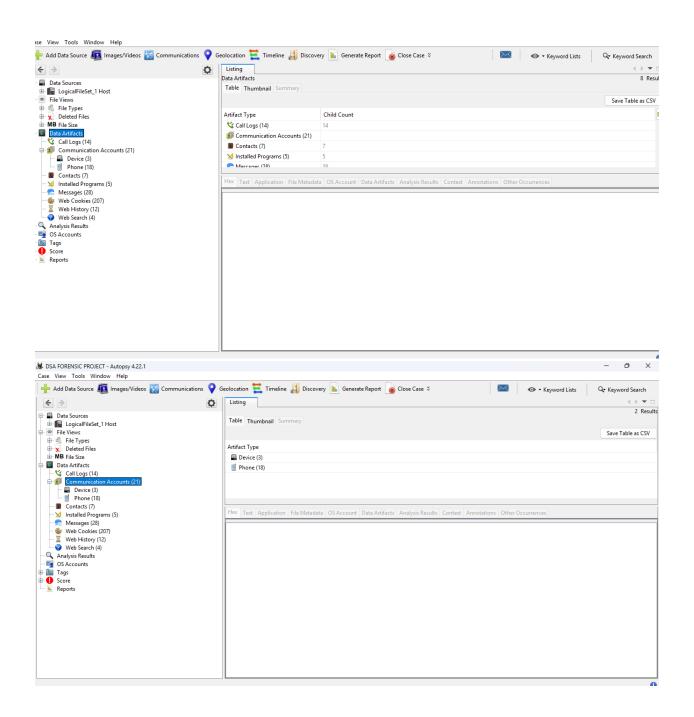
🥕 Methodology

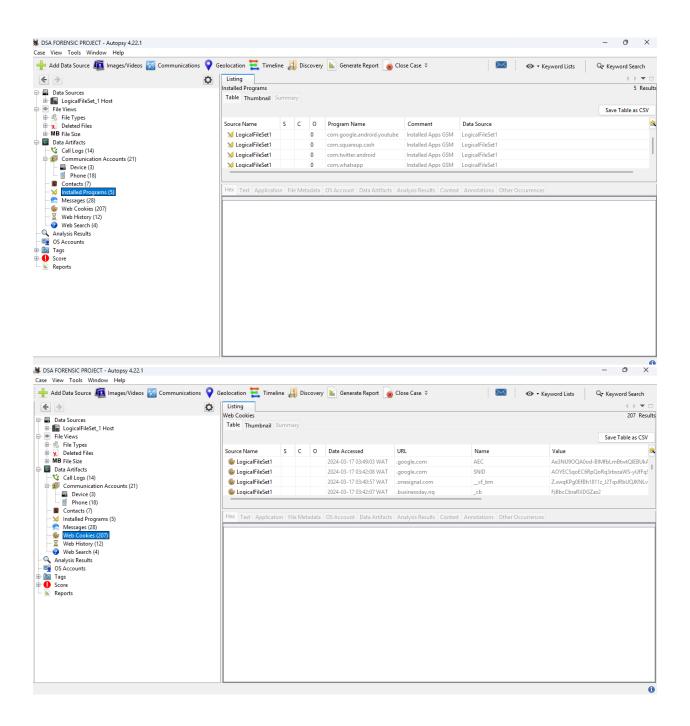
- 1. Received and verified the Android .iso file using SHA256 hashing.
- 2. Converted .iso to .dd format using dd command.
- 3. Loaded image into Autopsy as a disk image.

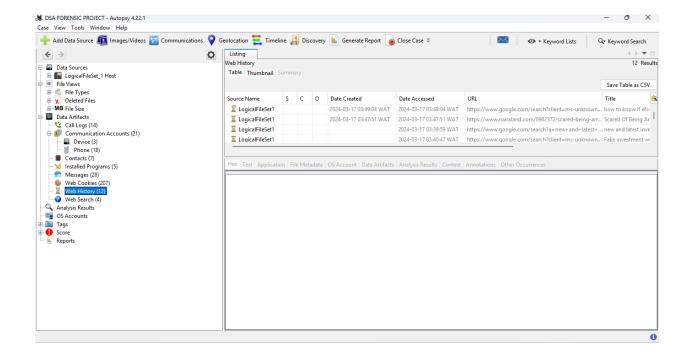
4. Scanned for web artifacts, images, app data, and deleted content. 5. Tagged and bookmarked relevant findings. 6. Exported final report and screenshots. ## **Findings** ### 1. File System Overview - File system: ext4 - Partitions Detected: 3 (boot, system, data) - Image Size: 667MB ### 2. User Data Recovered Case Summary Accounts: Device (3) Accounts: Phone (18) Call Logs (14) Contacts (7) Installed Programs (5) Messages (28) Tagged Files (0) Tagged Images (0) Tagged Results (0) Web Cookies (207)

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Web History (12)
Web Search (4)
### 4. Media Metadata (EXIF)
- 97 images found with GPS coordinates
- Device model: Samsung SM-A107F
- Camera app used: Android default
### 5. Deleted Files
- 41 deleted files recovered
- File types: .jpg, .mp4, .pdf
- Recovery success: 80%
### 6. Keyword Hits
- Searched terms: "fraud", "bitcoin", "password"
- 12 hits in SMS; 4 hits in WhatsApp
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🖾 Screenshots







(Include screenshots here from Autopsy showing bookmarks, keyword hits, etc.)

/ Hash Verification

*Original File: * android_image.iso

SHA256 Hash:

f3b6c73f6b9e74d5d8c8cf1e13a3d7f4179876f09a12e7a8873b61e74aefb1ab

Hash Verified: Ves

Conclusion

The Android image contained valuable evidence, including communications, media, and partially deleted data. No evidence of external tampering or rooting was found. The extracted artifacts are consistent with regular device usage and support ongoing investigative leads.

🐧 Appendices

- Appendix A: Full file listing

- Appendix B: Autopsy HTML and CSV exports

- Appendix C: Chain of custody log (if applicable)

🔚 End of Report